| . (            | 11 2 9 2005 M          |      |          |                        |                   |
|----------------|------------------------|------|----------|------------------------|-------------------|
| Substitute for | form 1449A/PTO         |      | <u>-</u> |                        | Complete if Known |
|                |                        | CI / | SCUDE    | Application Number     | 10/811,607        |
| INFUR          | MATION TO IS           | CL   | JOURE    | Filing Date            | March 29, 2004    |
| STATE          | MENT BY AF             | PL   | ICANT    | First Named Inventor   | Sang Hun Lee, Ph  |
|                | se as many sheets as n |      |          | Art Unit               | 2872              |
|                | ,                      | 1    | 1 60     | Examiner Name          | T. N.GVON         |
| Sheet          | 1                      | of   | 123      | Attorney Docket Number | 42P19028          |

|                       | U.S. PATENT DOCUMENTS |  |                             |  |   |  |  |
|-----------------------|-----------------------|--|-----------------------------|--|---|--|--|
|                       | 011                   | Document Number                            | Publication Date            | No. of Boards                                      | Pegos, Columni, Linos, Where<br>Relevant Pesosges or Relevant<br>Figures Appear |  |  |
| Examiner<br>Initials* | Cite<br>No.1          | Number - Kind Code <sup>2</sup> (if known) | or Issue Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document |   |  |  |
| M                     |                       | US-2003/099034 A1                          | 05-29-2003                  | Mann et al.  | 359/359   |  |  |
|                       |                       | US-  |                             | 1  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  | ,   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |
|                       |                       | US-  |                             |  |   |  |  |

| FOREIGN PATENT DOCUMENTS |          |  |                                |  |  |  |  |
|--------------------------|----------|--|--------------------------------|--|--|--|--|
| Examiner                 | Cite     | Foreign Patent Document                        |                                | 1  | Poges, Columns, Lines,                             |  |  |
| tritlats*                | No.      | Country Code* - Number* - Kind Code* (# known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Where Relevant Pessages or Relevant Figures Appear |  |  |
| 1007                     |          | EP1348984 A 1                                  | 10-01-2003                     | Carl Zeiss Semiconductor Manufacturing             | <b>————</b>  |  |  |
| N                        |          | EP1367605 A1                                   | 12-03-2003                     | Nikon Corp.  |  |  |  |
|                          | <u> </u> | <i></i>  |                                |  | ·  |  |  |
|                          |          |  | L                              |  |  |  |  |
|                          |          | J  |                                |  |  |  |  |
|                          |          |  |                                |  | ·  |  |  |
|                          | <u> </u> | ,  |                                |  |  |  |  |
|                          |          |  |                                |  |  |  |  |
|                          |          |  |                                |  |  |  |  |
|                          |          |  |                                |  |  |  |  |

| Examiner<br>Signature | Ugn | Date<br>Considered | 19/10 | 105 |  |
|-----------------------|-----|--------------------|-------|-----|--|

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. \*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. \*Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafrran (wtr) 08/11/2003.

Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

| Substitute for form 1449A/PTO INFORMATION DISCLOSURE |                 |              |          | Complete if Known      |                     |  |
|--|-----------------|--------------|----------|------------------------|---------------------|--|
|  |                 |              |          | Application Number     | 10/811.607          |  |
| INFO   | KMAHONL         | JISCEU       | SUKE     | Filing Date            | March 29, 2004      |  |
| STAT   | <b>EMENT BY</b> | <b>APPLI</b> | CANT     | First Named Inventor   | Sang Hun Lee, Ph.D. |  |
|  |                 |              |          | Art Unit               | 2872                |  |
|  | <del>,</del>    |              | <u> </u> | Examiner Name          | ,                   |  |
| Sheet  | 2               | of           | 23       | Attorney Docket Number | 42P19028            |  |

|                       |              | 42F19028  |          |  |  |  |  |  |
|-----------------------|--------------|---|----------|--|--|--|--|--|
|                       |              | NON PATENT LITERATURE DOCUMENTS   | -        |  |  |  |  |  |
| Examiner<br>Initials* | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, megazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |          |  |  |  |  |  |
|                       |              | PCT Search Report; PCT/US2005/009661, mailed July 4, 2005.  |          |  |  |  |  |  |
| W57                   |              | Stearns et al., "Multilayer Mirror Technology for Soft-X-Ray Projection Lithography", Applied Optics, Vol. 32, No. 34, December 1, 1993, XP000414602.   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              | ·   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              | •   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
|                       |              |   |          |  |  |  |  |  |
| xaminer<br>Signature  | i            | Date Considered (440/07   | <u> </u> |  |  |  |  |  |

\*Examiner: Initial if reference considered, whether of not citation is in conformance with MPEP 609. Draw line through distion if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number. 'Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Sokokoff, Taylor & Zafman (wir) 08/11/2003. Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

## STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet | Apply h No. | 10 | 871,607 | | Filting Date | March 29, 2004 | | First Named Inventor | Sang Hun Lee, Ph.D. | | Art Unit | 2872 | | Examiner Name | 7, NG-U20 | | Attorney Docket Number | 42P19028

|                       | U.S. PATENT DOCUMENTS |  |   |  |  |  |
|-----------------------|-----------------------|--|---|--|--|--|
| Examiner<br>Inilials* | Cite<br>No.'          | Document Number Number - Kind Code <sup>1</sup> (if known) | Publication Date or Issue Date MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Rages Cohumer Lines, White<br>Tudevarn Passages or Rudevant<br>Eiguno Appear |  |
|                       |                       | US-5,071,240   | 12-10-1991                                | Ichihara et al.                                    | 359 366  |  |
| 100                   |                       | US-5,212,588   | 05-18-1993                                | Viswanathan et al.                                 | 359/355  |  |
| W                     |                       | US-5,686,728   | 11-11-1997                                | Shafer   | 250/492.2  |  |
| Wes                   |                       | US-5,815,310   | 09-29-1998                                | Williamson   | . 359 365  |  |
| NEN                   |                       | US-6,033,079   | 03-07-2000                                | Hudyma   | 359/857  |  |
| (A)                   |                       | US-6,183,095   | 02-06-2001                                | Hudyma   | 359/857  |  |
| NZ                    |                       | US-6,188,513   | 02-13-2001                                | Hudyma et al.                                      | 359 366  |  |
| NOT                   |                       | US-6,262,826   | 07-17-2001                                | Shafer   | 359/208  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |
|                       |                       | US-  |   |  |  |  |

| FOREIGN PATENT DOCUMENTS |      |  |                                |  |   |          |
|--------------------------|------|--|--------------------------------|--|---|----------|
| Examiner                 | Cite | Foreign Patent Document  |                                |  | Pages, Columns, Lines,                                |          |
| Initiats*                | No.¹ | Country Code <sup>3</sup> - Number <sup>6</sup> - Kind Code <sup>6</sup> (# known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Where Relevant Passages<br>or Relevant Figures Appear | T*       |
|                          | _    |  |                                |  |   | -        |
|                          |      |  | A > <                          | n D  |   |          |
|                          |      |  | MX                             |  |   | $\vdash$ |
|                          |      |  |                                |  |   |          |
| ·                        |      | <u></u>  |                                |  |   | -        |
|                          |      |  |                                |  |   |          |
|                          | 1    |  |                                |  |   |          |

| Examiner<br>Signature | Mar | Date<br>Considered | 14/20/05 |
|-----------------------|-----|--------------------|----------|

\*Examiner. Initial if reference considered, whether or pot citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 08/11/2003.

Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450